



 1: AP001859. *Oryza sativa* geno...[gi:7630233] [Related Sequences, Protein, Taxonomy, LinkOut](#)

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FEATURES             Location/Qualifiers
     source            1..150594
                        /organism="Oryza sativa"
                        /cultivar="Nipponbare"
                        /db_xref="taxon:4530"
                        /chromosome="1"
                        /clone="P0485D09"
     CDS              join(7919..7964,8092..8280,8453..8473,8558..8610)
                        /note="hypothetical protein"
                        /codon_start=1
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HRRVLAVLIPEVDIRRRVLAYVGFYVVASMSIVLGCFRIGHVRSPNPGQIRLQOIKAK
"

CDS complement(9235..9582)
/note="hypothetical protein"
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/db_xref="GI:7630235"
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ARRNFGREGKMRGVDGYLAIFPGWFLQKGRGREGARGCEMDGGEMARVGSARSGPSV
STSAAFVSRFGNF"

CDS join(10735..10850,10933..10987,11596..11653,12285..12379,
12471..12574,12958..13086,13493..15302)
/note="Similar to Arabidopsis thaliana chromosome 4, BAC
clone F4D11; putative myb-protein. (AL022537)"
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/db_xref="GI:7630236"
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GPWSKEEDEIIVQMVNKLGPKKWSTIAQALPGRIGKQCRERWYNHINPGINKEAWTQE
EEITLIHAHRMYGNKWAEELTKFLPGRTDNSIKNHWNSSVKKKVNSYMSSGLLTQVSC
PLNEYSANCNSSPAMTQQNSEDSGCFVREVENSSGCSQSSLAKVSCSQVHDTTVPLG
CDLQVNANFDKNEAHDSSSMGPQACYTSAEAVASALPAVHCHVSSSNLDPDQHLQED
FAQGLNLDMTIDEMPTVPSFADNQTVCSINHERSLEPYDVAMEVPLSMLSSDSGAEQ
KLHFMSEADFNSPNCCLKSELWQDISLQGLLSGPDADVEADSISSNHQSDVYSSEADTH
FLAPPYMPQTSNSSSVMLADDQSPQMSVPPSLICSNAMTDDAPFDNRPGRKEMPLSQ
AEVVTQSSSSSGDAEMFANPGCSNDRHVPSSSTMESIPECGDQQVTNAEEPEASLEKEP
SLTQSVTAPDEQDKGALFYEPFRPFLDVPFVSCDLVTSGLDQEFSPGLIRQLMHSTM
NVCTPMRLWGSPTHDESTGVLLKSAKSFICTPSILKKRHRDLSPIDPKRIEKKYGT
EKDRGVSDTSSGTSCINATKDDALITTVLRIERSASSKSLEKKLVFSDENKENLG
YTTEQTKDQGSAGNDEHMDQTTGERSSATNVATNDDLSGNLVSTSSF"

CDS complement(join(18608..18823,19905..20031,20072..20220,
20774..21113,21407..21738,21975..22508))
/note="ESTs AU082761(S5084),D42006(S5084) correspond to a
region of the predicted gene.
Similar to Caenorhabditis elegans chromosome 3, cosmid
C17G10; alcohol dehydrogenase/ribitol dehydrogenase.
(U28739)"
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/protein_id="BAA94770.1"
/db_xref="GI:7630237"
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KLKNKSDDELHQLKQFDKAWNVYGVNLNLQALVEKSMIAQILEREKEGLEQFTATDGY
DYQGSNVLKMLGYYSMIGLLRIHCLLDYRTGLKCLAPIDLNQGGVYTTIVIGSHISA
IYHYGFANLMMRRYAEAIREFNKKILLYILKYKQYHQKSPQYDQILKKNEQMYAFLAVC
LSLCPQHNLIDENVSTQLKEKYNDKMTKMQRFEETYAAYDELFSYACPKFITPSPPA
LDQPLTNYNQDAYRLQLKFLYEVKQQQLLSGIRSYLKLYSTITIAKLAQYMEVDEAT
LRAMKNLSQYLYRSILMTYKHKMHAVDNNGKIVSSADFDYIKEICSSIRTPKLTSKN
LAHIHIQVGKTVRKPSLSFSYFFFGIEIGNSGYENGIEYYRNRKWSENEPAQIR"
join(23045..23145,24592..24670,25118..25216,25302..25415,
25608..25750,26364..26445,27073..27158,27527..27760,
29332..29917)
/note="Similar to Arabidopsis thaliana chromosome 2 BAC
T19C21; unknown protein. (AC004683)"
/codon_start=1
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KRIGHKNPKVQILALTLLTETAIKNCGDI FHMHVAERDVLHEMVKIVKKKSDQNVKEKV
LTMIDTWQEAFFGGPRARYPQYYAAYHDLVRAGAAF PKRSDRPAPLFNGQSPAGNMRS

CDS

PDQQDEAESSAGNDFFALSMSEIQNARGIMDVLAEMLNALDPGNREGLRQEVIVELVD
QCRTYKQRVVLLVNATADEELMSQGLALNDDLQRLVLAHDAIAAGIAVRVEKKPKSLQ
ALVDTEDSMNQDSKKEQALVDIEDPTTQETNKEPSQSASVQSPFEQLALPAPPVSNQS
ATPAPKSDLGVDLLSWDDNPSTTENSALVPVTDPVVDSTPSQNALAIVDIFSQNNNTT
NNIAKPADPFGVNSSSTLPGSQPYNAPTQHPLQAQQQPQQVGLYPNGGAVNPGTSYPT
SSGWNQIANNATPPAQQTVNYGIAIYLYIYISQPFSTYTIPIIGCQNHACPCCLCSV"
30166..30675

/note="ESTs AU031545 (E61825), AU031546 (E61825) correspond
to a region of the predicted gene.

hypothetical protein"

/codon_start=1

/protein_id="BAA94772.1"

/db_xref="GI:7630239"

/translation="MYNNQQPGAMQPSQPAVTQMQSGFANQFGSMPPHSMPPGMQFPGM
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PTYAGMNDLSQKMYGLSMQDSSYMGMNSSPYSTTPSSSSSMGQPSKPEDKLFGLLS
IAKTKQNKKA"

CDS

complement(join(34629..34795,36831..36867,38803..38895,
41780..41830))

/note="hypothetical protein"

/codon_start=1

/protein_id="BAA94773.1"

/db_xref="GI:7630240"

/translation="MTVVRCTTRQRLLEGERIQCDIRGKKILGSKGPFDSQNRKNTGI
EIEVGLLDACVIVYTVEKPENERRIKKHGRLRGLSRLCDRLGPKLVWDPSPTKVVT
PYVQFPRGHTLFRHG"

CDS

join(46367..46423,47537..47769,48031..48153,50082..50299,
51762..51864,52091..52204,52433..52532,52784..53004,
54084..54514,54601..55709,56020..57468)

/note="hypothetical protein"

/codon_start=1

/protein_id="BAA94774.1"

/db_xref="GI:7630241"

/translation="MPNGLIRKLREELLDKLIHATFPHPPPQIPVGAAAAAATDAIA
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DMCVRVAVLHRMGSNGGRLALLTCSLTKANCLLAMKLFLEKEKQTFELGNIEEAA
SSGERSTARRVDRAPPLRRGCRSKRPPSCAPLSGLELLASMGTKALIFHVAEEKKIP
SFAGILAATFWGNLFLAILPARISGALIFHELIEVDIYCACLCDVDSLLVVVIDMEI
VAVDQEGARVVGTCNMLARGGTGAVAPVLELTATPRQDAAAEAGVDEPAQHQC
EHFISIRGYVALLQKKDKPKFCSLSRIFHDQKKCDEHKASSSPFSVAKFRRWDC
SKCLDKLKTSDNGTAPRTLPAKQNGTSDGCSITFVRSTFVPASVGSQKVPSTQSS
QKNADRSTLPKSVQE GNDKCNAPSGKNGAAEANTDS PMKDLQGPQNYDVAANVSE
DNTSVVVGALPEVPQITWHIEVNGADQPPSTPKLSEVVLKRNEDENGKTEETLVA
EQCNLTQKDPKPVSGQKCEQICNEPCEEVVLKRSSKSKRKTDKKLMKKQHQH
SKKRTAQADVSDAKLCRRKPKKVRLLEIINANQVEDSRSEVHRENAADPCEDDR
STIPVMEVSM DIPVSNHTVGEDGLKSSKNKTKRKYSDVDDGSSLMNWLNGKKR
TGSVHHTVAHPAGNLSNKKVPTASTQHDDENDTENGLDTNMHKTDVCQHVSEI
STQRCSSKGKTAGLSKGKTHSAASTKYGGESTRNGQNIHVLSAEDQCCMETENS
VLSHSAKVP AEHDIQIMSDLHEQSLPKKKKKQKLEVTREKQTMIDDI PMDIVE
LLAKNQHERQLMTETDCSDINRIQSKTTADDDCVIVA AKDGSYASSVFD
TNSQQKSLASQSTQKELQGH LALTTQESPH PQNFQSTQEQQTHLRMEEMVT
IAASSPLFSHHDDQYIAEAPTEHWGRKDAKKL TWEQFKATTRNSPAATCGA
QFRPGIQAVDLTSTHVMGSSSNYASRQPVIAPLDRYAERAVNQV HARNF
PSTIATMEASKLCDRRNAGQVVLYPKESMPATHLLRMDPSTLASFPNYGTSS
RNQMESQLHNSQYAHNQYKGSTSTSYGSNLNGKIPLTFEDLSRHQLHDLHR
PLRPHPRVGVLGSLLOKEIANWSENCGTQSGYKLG VSTGITSHQMN
RKEHFEALNSGMFSAKWNA LQLGSVSSSADFLSARNSIAQSWTRGKGMV
HPLDRFVRQD ICITNKNPADFTTISND NEYMDYR"

CDS

complement(join(58634..58667,58796..58902,59018..59083,
59368..59432,59585..59648,60333..60442,60620..60707,
60835..60945))

/note="ESTs AU082698 (R0665), D23963 (R0665) correspond to a
region of the predicted gene.

Similar to Arabidopsis thaliana rac GTP binding protein
Arac7. (AF079484)"

CDS
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DNFSANVSVDGSVNLGLWDTAGQEDYSRLRPLSYRGADVFLSFLISRASYENVQK
KWMPELRRFAPGVPVVLVGTKLDLREDRAYLADHPASSIITTEQGEELRKLI GAVAYI
ECSSKTQRNIKAVFDTAIKVVLQPPRHKDVTRKKLQSSSNRPVRRYFCGSACFA"
join(67330..67530,67676..67816,69073..69234)
/note="hypothetical protein"
/codon_start=1
/protein_id="BAA94776.1"
/db_xref="GI:7630243"
/translation="MGGSAAAAPPAPAWMAAGARRWLEEAGVAFDGSDDRAFNLPLA
GARVSLAEAGRAVCSLRVTAELTDAEGNWHPGAIAAAADDVCAAAIMSVEGIKVS
YDISYFSPAHLHEEVELDGRVVEQKGMKTAVTVEIRKDSGELVAIGRQWMSTTRPKK
DQASSKL"
join(69755..69967,70096..70236,70344..70514)
/note="Similar to Arabidopsis thaliana chromosome 1 BAC
F19P19; unknown protein (AC000104)"
/codon_start=1
/protein_id="BAA94777.1"
/db_xref="GI:7630244"
/translation="MDGESPAAAAAALRLAAVARRWLENPRDSLARSREEGCGDAFNT
VVMGFRVSLAEPGRVLCVFCVPAVADADGRWHAGAMAAVDNLCAAVVYTADGVHR
FTISQAMSFSPAAHGEEVEMDGRVAHRKGLTAAVVEVRRKASGELVAIGRQWMTST
RARPEKNGESRSKL"
CDS
complement(join(71003..71020,71150..71404,72000..72263,
72339..72458,72784..72900,72983..73107,73259..73568,
73950..74210))
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/db_xref="GI:7630245"
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SGKFSSSGRPLSRSSLLKLARVKERHRPSHDLSISRGADEMEEEEKAAAEWERKAAY
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RQLVLVLRSGKHGSDRALAMVALRSFMNDREGMHEITTYIKDVLRITLRELKSSGLAF
EMLKLLSDGQESSIDMWNHKEINHADCSSNGEVTSTIAYFKGYIFSGHSDGTLKVWQLR
DALRCVEVHDAKDPVQSLAVAAAMACFAPQGGSVKVLWNNNGGAKVLNASKVVRSM
LVHGKLFCCGNDGGVQEIDLASGTIGVIQQGSKRIIGKASPIYSLHLHGDLLYTGSTS
LDGASVKIWSSSNYSLVGTIPSSVEVRSLLVSSDLVYLGSRNGVVEIWSREKLTRIGA
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76778..77611))
/note="Similar to Arabidopsis thaliana chromosome 1 BAC
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AAAAAEAASHRGEDGSVETAAMSAMRVLSLMSGAAQAEQMRDLEREYEKVL DANCIA
LYLKKILETGDAKETYSPPPPPELVFGVGGDDQDGDVDDTETTAETDET VSSQNDVR
YNPIWADADEAADLYPRQSGKGWRELMRPPSLYPQRPVPHLIVQQQSSPSPTGRGS
PVARLRAGHSPATPSSDVSMEDSPSSSELLAGREEKHTASPLSRPAGRARPRGEEDDD
DDVAAMLSPEHASSVMGGDGGGDVARRPVVATPKDFVCPTTSQVFDVPTLETGQTYE
RRAIQEWLDRGNATCPI TRHRLHGAHL PSTNYVLKRLIAAWRDQNP AASSSAPT
ATTTMDS PAAAAPFKISSPSPDATVSQASAPSPTS VIAQASLDSAVGELRAAVSCLCT
SEELAD SERSVLRIERLWREAAGAEHVLAALAKPAVNGFVEILFNSVSAQVLQVAV
FLLAELASRDDAVVQTLTRVDSVDCLVALFKKGLVEAVSLIHLSPSPEQLVEMDMA
DALVATIRRGGGDDGGAVVKMCKPKAASVILLSQILVEGGRDSSSPAVAKSALVSE
RFIRSVAASLEAEQVEERVA AVRILLRCVAEDGHCRSSIVENSALA AVLDAFHVVGDA
DKFDIVRLLSELLKLR"
CDS
complement(join(79131..79508,80067..80462,81617..81838))

/note="Similar to Populus balsamifera subsp. trichocarpa X Populus deltoides vegetative storage protein. (L20233)"
/codon_start=1
/protein_id="BAA94780.1"
/db_xref="GI:7630247"
/translation="MAMRWVPVLVAAAMMATAAEGFISAKTWSAVRRANDRGPFVGS
SCPTPTRWIPSSTPQASPLPLPSPPTSTSKLNAGLTTQLLLSLFRVKGIVHWGIAGNA
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PSPNELNSIWFPQEEIFPVSGKPEQRQHAFAWVPVSSRYFSLAEKLEGMELPACVNATT
CLPRAPRVTRVRRGCSANVFLDNAAYRQFLRAKFGCTPVEMESAVALVAHQHAVPFL
TIRSLSDLAGGGSSLGNEAGEFLAIAAQNADVMLNFVPLLADGGAHDAVAADM"
complement(join(84055..84182,88221..88406,88495..88786,
88796..88989,89149..89251,89456..89578))
/note="hypothetical protein"
/codon_start=1
/protein_id="BAA94781.1"
/db_xref="GI:7630248"
/translation="MNQKEMWMLTGQQDPIPSPAMLAANEDRRPSYVQPRLVFTTETS
RKRDITADRYKNRVIGYKTPVVLFFYYFRVKRGQLTAWRDHGAASGQINDGRLTAMPM
WRGVTEERRSSAGQRHQAGQEAQAQGGQAAALVGLSSHLERRLDRKRSPRGRVSRRA
EAKRPPVSNLSMLVLDDEPVVSRIFFVEARFHNRIKLTILRPAPLLGHLPMHTRRLSS
SATSPPWTTPTLSESHRGGLVEMRCIILANVESLSHPLPLNHISYIYTHDGKIRFLDFC
KYYILFKMYDIIFKMKNDFLWDEVVHMRQTSIYYIIKTTLKGGTTFAVKARNSHINRR
KRKEESK"
join(90754..90812,90875..91037,91063..91118,92712..92801,
94143..94347,95119..95239,96404..96559,96598..96670,
96957..97029,97203..97309,97633..97721,97864..97980,
98080..98221,101760..101908,102148..102416)
/note="hypothetical protein"
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/db_xref="GI:7630249"
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SADGRTASSTRASSSPRPPRWALGLAPLKVFVFLVARLRDLPRVWSDGCVLREVGFK
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YGFESDGCNSFSHFVDVQDFSDHYAKNSPGKKLASQSGFNHAESIYVRVYEDRIDLLR
AAIVGPAETPYHDVVAEPPLSISLVVPGVLAITRIWHLMEWRAIRRGRCQGRGRWWG
GDGRGEDDPPTYATASLGESGGGAVKMAGGNPTAFREINISSGPKPNWCVGWLRID
ACAHPPFFDELREPNAHLPWQMVVHSLLCSTSSMNHFSKDSVPEKYNVNYLAMEKCVL
LLLVLTLPYSSVAAPCFCLLFHHVNANPNPNRNEPSSFTSWSTPWKDCKEKHPNVKQV
SCGAFGLLCVNCYNVCSLDLVDLVVTSASPCMLLLIYSITNFSLRFLDFERFFMHRFF
KYHCHARLGLRGELVKEGRRRLHLDGSSFLLRSSSRSEGRSEGIAADDRCRDGRDSE
DQPFIACTRSCSAWHPERSELLQLPLGLDRLRGLGLRCGGVASSPWRRLRQRF"
complement(join(103558..107442,107973..108020))
/note="Similar to Zea mays retrotransposon Cinfu-1.
(AF049110)
internal stop
codons:106918..106920,106609..106611,106490..106492,
106304..106306,106238..106240,104767..104769,
104776..104778,104098..104100
probably inactive because stop codons and frameshift
positions are included in CDS"
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/note="one bp frameshift deletions"
104647^104648
/note="one bp frameshift deletions"
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/note="one bp frameshift deletions"
105961^105962
/note="one bp frameshift deletions"
106508..106509
/note="two bp frameshift insertion"
complement(join(110511..110711,111391..111501,

112138..112191))
/note="hypothetical protein"
/codon_start=1
/protein_id="BAA94783.1"
/db_xref="GI:7630250"
/translation="MPTVVQIPTRTGMVFILCLINFDLIASSCVCANMQGIMAGERST
DGLFPEFPAGQDAEKDGKKQQAQKDDDLRSRGLCLVPVSCMPHLAADNDVVVGSDFWA
AAGGGGGGGAPPLAGMNLNLR"
CDS complement(join(113867..114067,114105..114230,
114243..114368,114680..114739,116575..116640,
117588..117886,118341..118586,122081..122277,
122894..122951,124462..124534,124642..124749))
/note="hypothetical protein"
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/db_xref="GI:7630251"
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RGSPVDMGRKSTGALSCFVYLCSEPSRIELTYTNYRSTKNERTSMLSSGGELKSSSL
VQQMVWVGTCNSSSSSIMGSLRQLPCSEEQDAASSPASMLFLPQQLLHASSNSSPCL
NIEVNLSTGLDDEASMPHEASAAAYDFYGHGGGAGDGILQASPEASSCKSOLSQMLL
QAAASSPRSCVTTSGLGSSMMDFSNTAAVAPAAEPELTRKHHAGQSDNSSEVRKERLG
DRITALHQIVSPFGKALSYPYLGQCCSANPMQQQTVKPPAQPIHTWRWPVCMSAAAH
ATGARSCACAEAAHRPGHSIRASCRSRWSSLAEEAVQPLVVHGRRRADFRLSPEQLVL
PGRAVACAEAVQLRASHRCCSSSLAAARAPAATCRRAPPTRRRLARASPAHRRATATP
DYPRLKTRCRA"
CDS join(126390..126491,127117..127242)
/note="hypothetical protein"
/codon_start=1
/protein_id="BAA94785.1"
/db_xref="GI:7630252"
/translation="MTIFRYCYCEKVVMMLLHDDCYVTAKFLRDVNNQVISISTIGDGR
PFENTCKIRLIMFISRPPIVHRSVLAGPHEQP"
CDS complement(join(128094..128231,129853..129913,
129941..130079,130272..130387,131275..131375))
/note="hypothetical protein"
/codon_start=1
/protein_id="BAA94786.1"
/db_xref="GI:7630253"
/translation="MHTIRCISAGALVLMVNLNLKEELYVVAGSNQFFNSQHLSLP
HLYLLSSPHTPPSLSNSLPVDRVAAAAGGHPTVAAVLHPEAGGGRSIAEVVARGVWRWR
EEAAAAAI PRVDLAADGFFSRADDISTRTRKTDFSVRMDGISSTGRSEQIELAAPSS
APASELGSHPSRRHRRHDFGTEPA"
CDS join(133369..133726,134238..134605)
/note="hypothetical protein"
/codon_start=1
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/db_xref="GI:7630254"
/translation="MGTEEEKKHQQSRSSRRKDVTKGKSRCCEVASKASEDGRVQKRH
KQGYTRTTLPSPFLLYVLDRLTLQPDASLAAAFHPCLPACTRSSARSSSELIARCCCAC
GFGGVGQVGEYERCHSVPGGGLLELGDTPNPPTRTLAMVGTSSGNGLSNGDDNYGSSI FS
LKSPLAWTQPPPSLRTGSSSTMRRCDGIDLPPGDPPTDRSTATIGVWRGSRAGGGGARR
GNDSLDDDELLGLGDGATADERR"
CDS join(135478..135487,135591..135979)
/note="hypothetical protein"
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/db_xref="GI:7630255"
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DVPRAYGYERPSPAMEHTLSLKSAKYYYGKRFFMAYVTLKFSLTAVCETVGNVKKRV
WGYGPPAKTDLAKMLQFLLAHFKTPLAKI"
CDS complement(join(139307..139804,140391..140475,
141849..141980,142368..142447))
/note="hypothetical protein"
/codon_start=1

CDS

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/protein_id="BAA94789.1"
/db_xref="GI:7630256"
/translation="MNNAKKFYNMKRRKYKISFRNDGVQDRSCLIKDLFGGQLECTP
SASIKVNLRLDVTHYNDSGQMYVQIRSSNRDDTPRIYQLKFSGDRSTSVYSNCDQKPD
ITHHELSIPDELPPSTQSRVLSYVAYAWQPSQHFLFLKDAGAHLSYTLSSLPLLALS
LSLSRRGHSAATGRRRRRAGHGGRGGGGGVGRAGGGEGRGGRGAGHGCGVDGGPSMC
PPRDGRSLRPRRPAMCPCPACTTTALAATPPYRGALAREKEENEQK"
join(143334..143343,143510..143915,144690..144922,
145776..145872,145993..146054,146935..146972)
/note="ESTs AU083004 (E60493), AU030968 (E60493),
D23864 (R0457) correspond to a region of the predicted
gene.
Similar to Glycine max GH1 protein (AF016633)"
/codon_start=1
/protein_id="BAA94790.1"
/db_xref="GI:7630257"
/translation="MYTGIQTRRIPVHVLPPLMSPPLELDYIGLSPPPPPPSSSSAAA
ARADDVDLKGTELRLGLPGSESPDRRPAIAAAAAATATTLELLPAKGAKRVPDEAAL
TPPTAAAGKGKAAREEGEEVGAEEDDKVAAPPQPAKAQVVGWPPPIRSYRKNMTATNQ
IKSNKEDVDAKQGQGLYVKVSMDGAPYLRKVDLKYKNYKDMSLGLEKMFIFSTGK
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SKNRN"
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BASE COUNT 42222 a 30876 c 31538 g 45958 t
ORIGIN

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Revised: October 24, 2001.

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